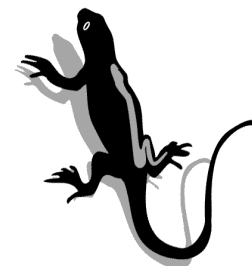




Biology 4L-Principles of Biology Laboratory – Spring 2012
Office 60-2102, Ext# 4231 email: trevell@mtsac.edu
Office Hours: _____
PLEASE READ THIS ENTIRE SYLLABUS
WebPage: <http://instruction.mtsac.edu/trevell>



Required Text: Biology 4 Lab Manual by Cindy Shannon

Week	READ LAB #	LAB
1	1	Microscope / Metrics / Scientific Writing
2	2	Macromolecules
3	3	Enzymes
4	4	Cytology
5	5	Transport
6	6	Photosynthesis
7	7	Respiration and Metabolism
8	8	DNA, Gel Electrophoresis
9	9	Meiosis / Mendelian Genetics
10	10	Taxonomy - Sanctuary/ Dichotomous Key
11	11	Ecology - Plant Transects (dress for weather/bushes!)
12	12	Biodiversity: Trip to Evey Canyon (dress for the weather!)
13	13	Development/Embryology
14	14	Evolution / Population Growth / Population Genetics
15	15	Ecosystems--Wildlife Sanctuary (dress for the weather!)
16	16	Finals Week: Lab Final

Points Possible

Lab assignments (15 at 5 pts)	65
Quizzes (14 at 10 pts)	140
Lab Final	75
Scientific Paper DRAFT	20
Scientific Paper FINAL	50
Ecology Paper	<u>85</u>
	435

Grades and Percentages

Lab and lecture are counted as one grade. At the end of the semester, I will report you **Percentage** of your earned lab points to your lecture instructor. Your lecture instructor will assigned you a grade based on your combined efforts for both lab and lecture. Your instructor may adjust your lab points based on his or her syllabus.

Assignments:

Lab Assignments-During each lab period, one or more exercises will be completed that are designed to demonstrate specific principles in biology. These will most often be completed as a group effort. All work must me down in class unless otherwise specified. **There will be no make-up lab assignments.** Each lab requires certain equipment, chemicals and/or other supplies

which can only be made available during the lab for that week. **If you miss a lab, you will lose all the points associated with that particular days lab.** Lab assignments will be turned in during the first 5 minutes of class only. Work handed in late (up to 1 week) will be worth half credit. Work handed in later than 1 week will not be accepted.

Lab Quizzes- There will be 14 quizzes given throughout the semester. Each quiz will be worth 10 points. There are no make-up lab quizzes. **Lab Quizzes take place in the first 5 minutes of class only. If you are late, you do not get to take the quiz.**

Final Exam: The final exam will both be comprehensive and will cover material learned on all previous laboratories. The final will include multiple choice, fill in the blank, identification and matching, and short essay.

Scientific Paper and Research Paper: There are two scientific study write-ups that will be required in this class. These projects are worth a significant portion of you grade and will be discussed in great detail in class. These are both INDIVIDUAL work projects. NO GROUP work is allowed on the papers you will submit.

Information you need to know:

- 1) **Note:** It is the student's responsibility to drop a course officially if the student wishes to avoid an "F". The instructor MAY drop students for non-attendance, but this is discretionary. Students who do not drop but do not complete the work will receive an "F".
- 2) Note: All papers will be returned to the student as soon as possible. Students have one week upon the return of an assignment or quiz to refute the grade. After one week, no grades will be changed. I will keep all quizzes for up to 2 weeks after the semester ends. After those two weeks, ALL assignments and quizzes will be recycled.
- 3) The instructor reserves the right to make any necessary changes to this syllabus or to any part of the class without prior warning. It is your responsibility to be aware of any changes that have been announced during class!
- 4) All assignments are due at the beginning of class. If you are given an assignment and do not have it ready to turn in at the beginning of class on the day it is due you must come to my office hours and hand it in to me personally AND I must grade it and return it to you while you are there. If you do this, you will receive ½ credit for the assignment. If you do not do this, it will not be accepted and you will receive a zero. You have one week to complete late assignments. After that, no credit will be given.
- 5) I keep ALL exam and quiz questions. YOU MAY NOT, under any circumstances, take one my exams or quizzes home with you. YOU MAY NOT zerox, copy, or photograph any of my exams or quizzes. Failure to follow these rules WILL result in an "F" in the course.
- 6) Academic Honesty: Mt San Antonio College regulations and guidelines regarding academic honesty will be followed and enforced. Cheating or plagiarism may result in an F on the assignment involved and possibly, the entire course. Cheating will not be tolerated!
- 7) Cell Phones and other devices that create distraction are not permitted in class. Special considerations may be given by the instructor on an individual basis.

- 8) **To succeed in this course:** Your study of biology will be an exciting and rewarding experience. We will cover a variety of topics that can be both interesting and useful in improving your life. However, do not make the mistake of taking your study of this course too lightly. To succeed in this course you **MUST** attend class regularly, study often AND effectively, and live a life that is conducive to learning (for example, you need to sleep, eat, work, etc. within your means!). Failure to meet these basic requirements will make success difficult for most.
- 9) **Please notify the instructor immediately if you have a particular situation that requires special accommodations (such as a health issue or disability).**

Keep Track of your grade!!!

Week #	Quiz	Lab Points
	1 None	
	2 Quiz 1 _____	1 _____
	3 Quiz 2 _____	2 _____
	4 Quiz 3 _____	3 _____
	5 Quiz 4 _____	4 _____
	6 Quiz 5 _____	5 _____
	7 Quiz 6 _____	6 _____
	8 Quiz 7 _____	7 _____
	9 Quiz 8 _____	8 _____
	10 Quiz 9 _____	9 _____
	11 Quiz 10 _____	10 _____
	12 Quiz 11 _____	11 _____
	13 Quiz 12 _____	12 _____
	14 Quiz 13 _____	13 _____
	15 Quiz 14 _____	14 _____
	16 Lab Fin _____	15 _____
	Ecology Paper _____	
	Scientific Paper Draft _____	
	Scientific Paper Final _____	